

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

9516-058-228	FOR FURTHER ACTION	See Notificati Preliminary E	on of Transmittal of International examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/month/year)		Priority date (day/month/year)		
PCT/US03/36740	17 November 2003 (17.11.2003)	i			
International Patent Classification (IPC)	or national classification and IPC		18 November 2002 (18.11.2002)		
IPC(7): A61K 31/24, 31/40; C07C 205/0	00; C07D 209/34 and US Cl.: 514/	416, 534: 548/	512: 560/20		
Applicant					
CELGENE CORPORATION					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a	2. This REPORT consists of a total of $\frac{1}{2}$ sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a	total of sheets.		1		
This report contains indicat	ions relating to the following it	ems:			
I Basis of the repo	rt				
II Priority					
III Non-establishmer	nt of report with regard to nove	lty, inventive	step and industrial applicability		
IV Lack of unity of i	invention		[
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
		ng such statem	ent		
VI Certain documents cited VII Certain defects in the international application					
The state of the s					
VIII Certain observations on the international application					
Data of actual in the control of the					
Date of submission of the demand		Date of completion of this report			
16 June 2004 (16.06.2004)		h 2005 (14.03.2	2005)		
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US		ed officer	96 61		
Commissioner for Patents P.O. Box 1450	Raymor	d J. Henley III	Janherce for		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		ne No. 571-272	-0600		
rm PCT/IPEA/409 (cover sheet)(July 1998)					



International a	tion No.
PCT/US03/36740	

I.	Basi	is of the report
1.	With	regard to the elements of the international application:*
ļ	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
İ		pages 1-43 as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
	\boxtimes	the claims:
		pages 44-51 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand
	_	pages NONE , filed with the letter of
		the drawings:
		pages NONE, as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
	Ш	the sequence listing part of the description:
		pages NONE, as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the
	langu	page in which the international application was filed, unless otherwise indicated under this item.
	nes	e elements were available or furnished to this Authority in the following language which is:
	\square	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Ц	the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With interr	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
	ĺ	the drawings, sheets/ fig NONE
5. [] 7	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
k P	t	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
nis i	report	ment sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Idacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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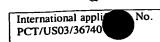


International appropriate on No.
PCT/US03/36740

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
1. The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), to be industrially applicable have not been and will not be examined in respect of:	г		
the entire international application,			
claims Nos. 32			
because:			
the said international application, or the said claim Nos relate to the following subject matter which do not require international preliminary examination (specify):	es		
the description, claims or drawings (indicate particular elements below) or said claims Nos are so uncl that no meaningful opinion could be formed (specify):	ar		
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.			
no international search report has been established for said claims Nos. 32			
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. 			
the computer readable form has not been furnished or does not comply with the standard.			

Form PCT/IPEA/409 (Box III) (July 1998)





v.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1	STATEMENT			
	Novelty (N)	Claims Claims	1-31 and 33-46 NONE	YES NO
	Inventive Step (IS)	Claims Claims	38-46 1-31 and 33-37	YES NO
	Industrial Applicability (IA)	Claims Claims	1-31 and 33-46 NONE	YES NO

2. CITATIONS AND EXPLANATIONS

Claims 1-31 and 33-46 meet the criteria under PCT Article 33(2) for novelty because the prior art fails to teach the presently claimed methods for treating the various diseases and disorder which comprises the administration of the presently claimed enantiomerically pure propionamide or propionate compounds; methods for producing the presently claimed enantiomerically pure propionamide or propionate compounds; or entantiomerically pure propionamde or proprionate compounds.

Claims 1-31 and 33-37 do not meet the criteria under PCT Article 33(3) for inventive step because MULLER (US 5,698,579 A) teaches method of treating the variously claimed diseases/disorders which comprises the administration of racemic mixtures of the presently claimed propionamide compounds.

The difference between the above and the claimed subject matter lies in that MULLER fails to teach the presently claimed

enantiomerically pure propionamide compounds. However, to the skilled artisan, the claimed subject matter would have been obvious because the skilled artisan would have recognized that the activity of a racemic mixture of compounds is the result of the additive effects of the individual isomers. The skilled artisan would have been motivated to select a particular isomer because the artisan would have known that in such racemic mixtures, one isomer is generally more active than the other.

Claims 38-46 meet the criteria under PCT Article 33(3) for inventive step because the prior art fails to teach or suggest the present claimed method for producing the presently claimed enantiomerically pure propionamide or propionate compounds or the entantiomerically pure propionamde or proprionate compounds themselves.

Claims 1-31 and 33-46 meet the criteria under PCT Article 33(4) because the presently claimed methods for treating the various diseases and disorder which comprises the administration of the presently claimed enantiomerically pure propionamide or propionate compounds; methods for producing the presently claimed enantiomerically pure propionamide or propionate compounds; entantiomerically pure propionamde or proprionate compounds themselves would have applicability in the medical industry.